ISDN TELEPHONE

AN EXCELLENT PHONE FOR

OFFICES AND HOMES

USER'S MANUAL

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While reasonable efforts were made to ensure that the information in this document was complete and accurate at the time of printing. It is not possible to ensure that this user's manual is absolutely "free of errors". Changes or corrections will not inform you but will be incorporated into future reissues.

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INTRODUCTION

You have selected an ISDN (Integrated Services Digital Network) telephone that provides more features than the traditional analog telephone. The features include:

GENERAL FUNCTIONS

- Multiple calls handling
- Call appearance
- Last number redial
- Speed dialing: 12 numbers in memory and 8 numbers in direct access keys
- Date and time display
- Call elapsed time display
- On-hook dialing
- Handsfree speaking and dialing
- Mute
- Volume control for ring and received voice
- A choice of ring patterns: 4 patterns
- Password protection for programmed data
- Support DTMF (Dual Tone Multiple Frequency) generator
- Last ten outgoing call numbers with date/time display and dialing
- Last ten incoming call numbers with date/time display and dialing
- Power failure informing and functioning
- Support POINT-TO-POINT configuration and POINT-TO-MULTIPOINT configuration
- New call indicator and call back
- Do not disturb
- Lock
- Baby call (Room monitor)
- Emergency call (Direct call)
- Call Waiting On/Off and Reject
- Incoming call block (Call filter): 5 numbers
- Outgoing call block (Toll restriction, allow, and partial block): 10 numbers
- Consultation hold
- Hearing aid capability

SUPPLEMENTARY SERVICES

- MSN (Multiple Subscriber Number): 3 numbers
- SUB (Sub-addressing): 3 numbers
- COLP (Connected Line Presentation)
- COLR (Connected Line Restriction)
- CLIP (Calling Line Identification Presentation)
- CLIR (Calling Line Identification Restriction)
- CFB (Call Forwarding Busy)
- CFNR (Call Forwarding No Reply)
- CFU (Call Forwarding Unconditional)
- CW (Call Waiting)
- CH (Call Hold)
- TP (Terminal portability): Call suspend and suspended call resuming
- MCI (Malicious Call Identification)
- AOC (Advise Of Charge)
- KEYPAD FACILITY

SPECIFICATIONS (EURO ISDN)

The following telecommunication standards are supported:

- ISDN BRA So Interface
- I-CTR3
- BAPT 223 ZV25
- CTR8
- CE : EMC

CONTENTS OF THE PACKAGE

Before installing, please check the contents of the package which includes:

- The ISDN phone unit
- Telephone line cord
- User's manual
- Handset
- Handset line cord

TOP FRONT VIEW OF THE PHONE

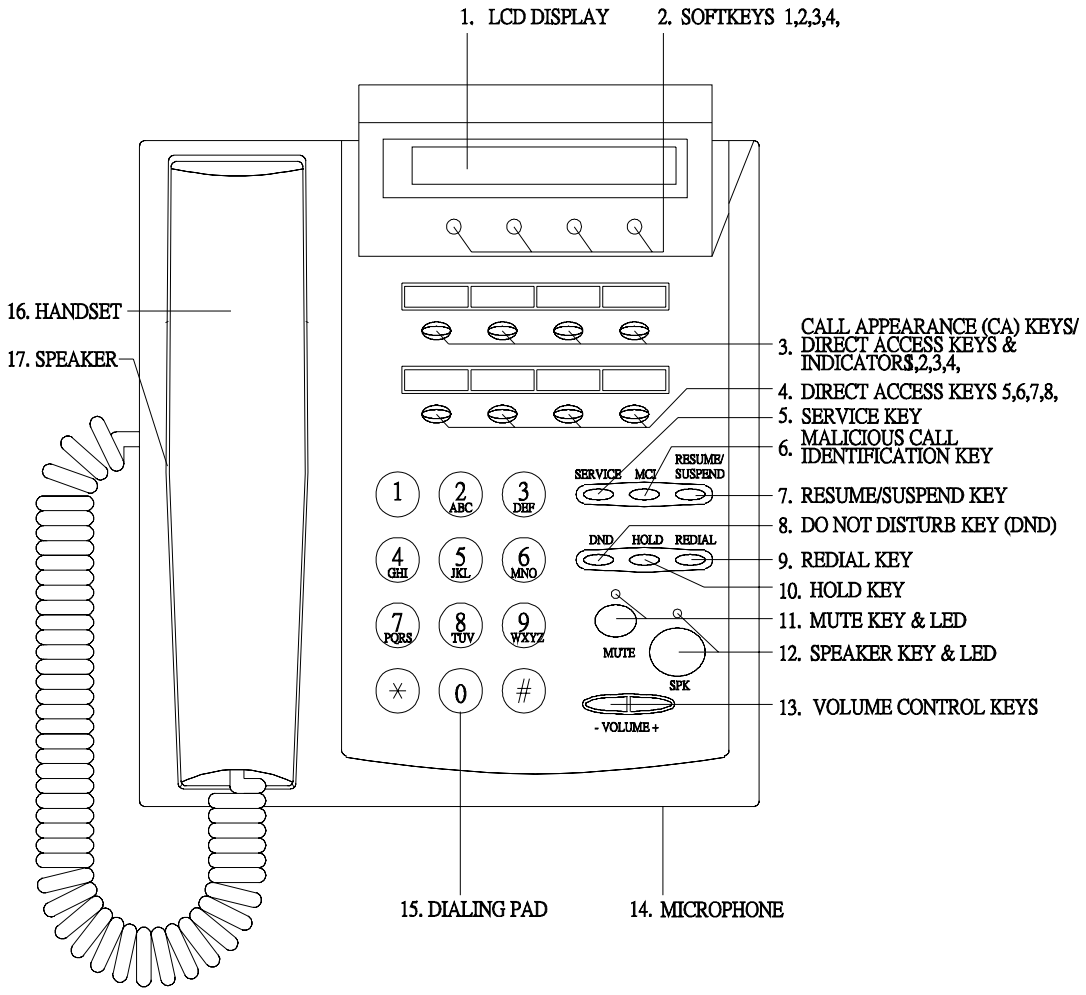


Figure 1

BOTTOM VIEW OF THE PHONE

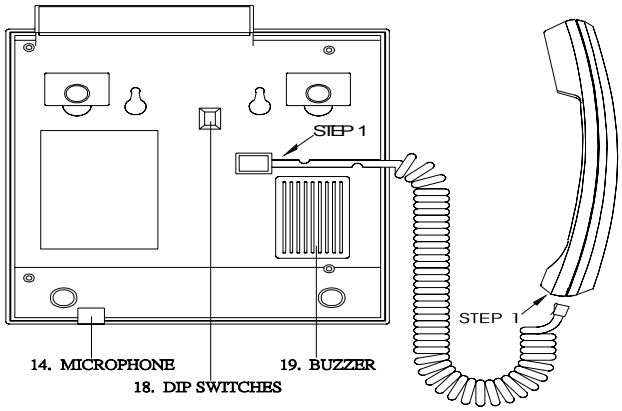


Figure 2

INSTALLATION

STEP 1: Connect handset to the phone unit by using handset line cord (see Figure 2).
STEP 2: Connect the phone to the ISDN wall socket by using telephone line cord (see Figure 3).
STEP 3: With the handset on-hook, keep pressing hardkey [MUTE] and plugging another end of telephone line cord of step 2 to the phone (see Figure 3).

Note: It is recommended to do STEP3 in case of malfunction, first installation or replacing new software.

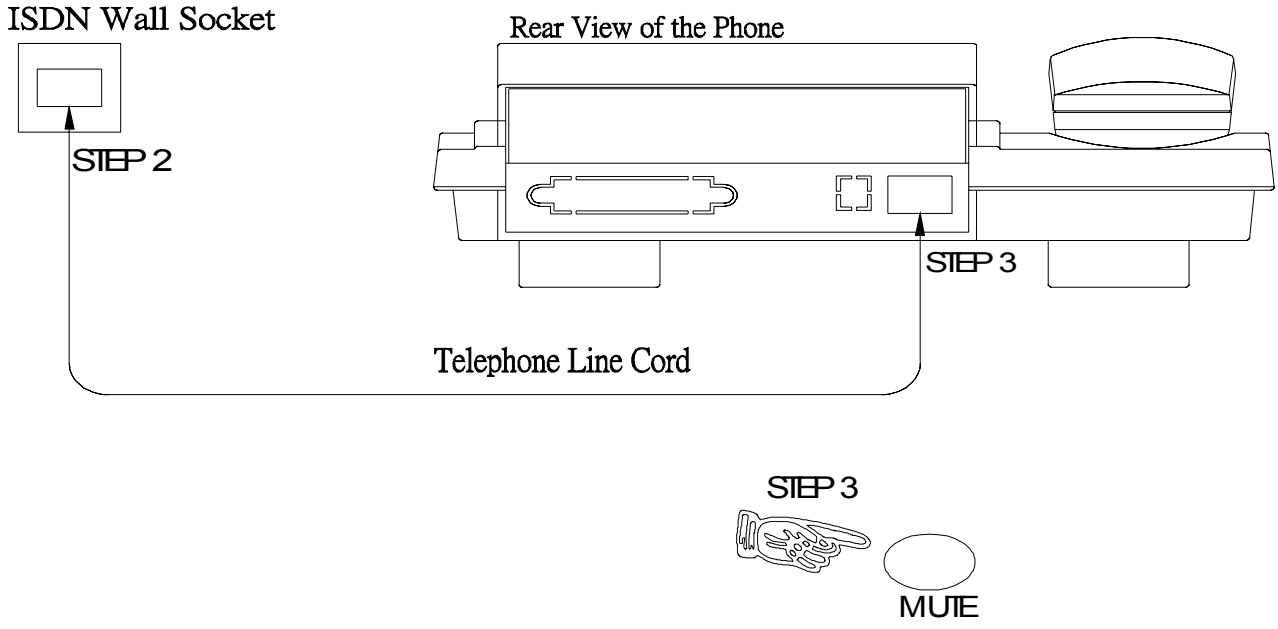


Figure 3

DIP SWITCH SETUP

The dip switch which is located on the back of the phone contains four switches which are all set to OFF as a default setting. After changing the dip switch setting, you need to re-plug the telephone line cord to the phone.

designated	terminal resistor	terminal resistor	point-to-point	ON
non-designated			point-to-multipoint	OFF
SW1	SW2	SW3	SW4	

DESIGNATED/NON-DESIGNATED (SW1) SETUP

SW1 is designated/non-designated switch. When there is a local power failure, only one designated telephone can be used from the network. In POINT-TO-POINT configuration, you can set SW1 switch to ON so that it can be used no matter there is a power failure or not. In POINT-TO-MULTIPOINT configuration, set the designated phone SW1 switch to ON and all other phones to OFF so that when power failure happens, the designated phone still can work but the others can't.

TERMINAL RESISTOR (SW2 AND SW3) SETUP

SW2 and SW3 are terminal resistor switches and need to both set to ON or OFF. In POINT-TO-POINT configuration, set SW2 and SW3 to ON. In POINT-TO-MULTIPOINT configuration, you can either set them both to ON or OFF depending on the call connection condition. Contact your local supplier if you still have trouble in setting up SW2 and SW3 after trying ON and OFF setting for them.

POINT-TO-POINT/POINT-TO-MULTIPOINT (SW4) SETUP

In POINT-TO POINT configuration, set SW4 to ON otherwise OFF (Note 1).

Note 1: In POINT-TO-POINT configuration, one NT (Network Termination) only connects to one telephone. For the long distance connection (up to 1 kilometer) between NT and phone, use this configuration to receive the better connection condition.

In POINT-TO-MULTIPOINT configuration, one NT connects to multiple ISDN terminals (Maximum eight terminals allowed). This configuration is suitable for the short distance connection between NT and phones.

LCD DISPLAY EXPLANATION

(1) Main display (Main menu 1)

```
DDD MM/.DD HH:MM  C L E B D F T A
PROG LOCK  RECORD SPEED
```

- In standby mode, LCD displays as above (Note 1).
- **DDD** shows the **day** of week such as MON is for Monday.
- **MM/DD** shows the **date** such as 01/04 is for January 4th.
- **HH:MM** shows the **time** such as 10:30 is for 10:30 A.M.
- **C** indicates that the **call forwarding** function is enabled (Note 2).
- **L** indicates that the **lock** function is enabled.
- **E** indicates that the **emergency call** function is enabled.
- **B** indicates that the **baby call** function is enabled.
- **D** indicates that the **DND** (Do Not Disturb) function is enabled.
- **F** indicates that **call filter** function is enabled.
- **T** indicates that **toll restriction** function is enabled.
- **A** indicates that **allow** function is enabled.
- **PROG** (PROGram) indicates that **softkey1** is for function setup.
- **LOCK** indicates that **softkey2** is for lock function setup. 'LOCK' is shown only if password has been set.
- **RECORD/NEWx** indicates that **softkey3** is for call record inquiry. If it shows NEWx, where x stands for a number, indicates that there is/are x new incoming call(s) was/were not picked up and has/have not been inquired by you.

- **SPEED** indicates that **softkey4** is for speed dialing.

Note 1: When the phone has not been used for a period of time, instead of showing date and time, main display shows 'ISDN PHONE' to shut down the power. It will automatically resume the power after any key is pressed or incoming call comes.

Note 2: If the returned string from network is not 'SUCCESS' of 'OK' after call forwarding is activated successfully, icon 'C' will not be shown on LCD main display.

PROGRAM (FUNCTION SETUPS)

You can do the function setups by pressing the softkey1 [PROG] from main display. Once you have a password, the four-digit password is required before entering protected function setup.

GENERAL FUNCTION SETUP

General function setup allows you to set up general information or data in the phone.

Main menu 2

	GENERAL	PROTECTED
EXIT	FUNCTION	FUNCTION

1 **Press softkey1 [PROG]** from main display. LCD displays as left, main menu 2.

2 **Press softkey2** to start setting up the first general function.

1. SPEED DIAL SETUP

You can store your frequently dial phone number in the memory or a direct access key to use for speed dialing. Up to twelve speed dial phone numbers can be stored in memory and eight in direct access keys. Each number stored can have subaddress associating with it.

(1) After pressing softkey2 from main menu 2

1. SPEED DIAL			
EXIT	BACK	NEXT	ENTER

1 **Press softkey2** from main menu 2. LCD displays as (1).
- ∗ Press softkey2 [BACK] to NEW CALL INDICATOR setup.
- ∗ Press softkey3 [NEXT] to BABY CALL setup.
- ∗ Press softkey1 [EXIT] to return to main display.

(2) After pressing softkey4[ENTER]

SPEED	TYPE		SELECT
EXIT	MEMORY		KEY

2 **Press softkey4 [ENTER]**. LCD will display as (2).
- ∗ Press softkey2 [MEMORY] to set up phone number in memory list.
- ∗ Press softkey3 [KEY] to set up phone number in direct access key.
- ∗ Press softkey1 [EXIT] to return to display (1).

A. SETTING UP PHONE NUMBER IN THE MEMORY LIST

You can program up to 12 phone numbers in the memory list (Note1).

(A3) After pressing softkey2[MEMORY]

1.			
EXIT	NEXT	SUBA	CHANGE

A3 **Press softkey2 [MEMORY].** LCD will display as (A3).
- ∗ Press softkey2 [NEXT] to set up next phone number.
- ∗ Press softkey3 [SUBA] to enter subaddress of current phone number.
- ∗ Press softkey1 [EXIT] to return to display (1).

(A4) After pressing softkey4[CHANGE]

1.			
EXIT	←	SUBA	SAVE

A4 **Press softkey4 [CHANGE].** LCD displays as (A4).
- ∗ Press softkey2 [←] to move cursor backward for one digit and re-enter the number.
- ∗ Press softkey3 [SUBA] to enter subaddress of the current phone number.
- ∗ Press softkey1 [EXIT] to return to display (A3).

A5 **Enter the phone number.**

A6 **Press softkey4 [SAVE]** to save the setting and return to display (A3)

Note 1: Refer to METHOD A:USE SOFTKEY of SPEED DIALING in MAKING OUTGOING CALL section to actually implement the phone number stored in the memory.

B. SETTING UP PHONE NUMBER IN DIRECT ACCESS KEY

You can store phone number in the direct access key. There are eight direct access keys available (Note 1)

(B3) After pressing softkey3[KEY]

```
SELECT PROGRAMMABLE KEY
 EXIT
```

B3 **Press softkey3 [KEY]**. LCD will display as (B3).

(B4) After pressing direct access key

```
XXXXXXX
 EXIT   SUBA  CHANGE
```

B4 **Press one desired direct access key**, if there is phone number stored in this direct access key, LCD displays as (B4) where xxxxxxx represents the phone number (Note 2).

* Press softkey2[SUBA] to inquire subaddress associated with current displayed phone number.
* Press softkey1[EXIT] to return to display (2).

B5 **Press softkey3[CHANGE].** LCD displays as (B5).

(B5) After pressing softkey3[CHANGE]

```
_
 EXIT  ←      SUBA   SAVE
```

B6 **Enter the phone number** to store in the direct access key.
* Press softkey2[←] to move cursor backward for one digit and re-enter the number.
* Press softkey3[SUBA] to re-enter subaddress.

B7 **Press softkey4[SAVE]** to save the setting and return to display (B4).

Note 1: Refer to METHOD B: USE DIRECT ACCESS KEY of SPEED DIALING in MAKING OUTGOING CALL section to actually implement the phone number stored in the direct access key.
Note 2: If there is no phone number stored in this direct access key, LCD displays as following:

(B4-1) After pressing direct access key

```
RECORD EMPTY
 EXIT  CHANGE
```

* Press softkey2[CHANGE] to enter phone number.
* Press softkey1[EXIT] to return to display (2).

2. BABY CALL SETUP

This is the room monitoring function which allows you to listen into the room where the phone is located. In order to do so, dial the MSN which was stored in this phone (Refer to PHONE NUMBER SETUP to set the MSN).

(1) After pressing softkey3[NEXT] from SPEED DIAL SETUP display (1)

```
2. BABY CALL
 EXIT  BACK  NEXT  ENTER
```

1 **Press softkey3[NEXT**] from SPEED DIAL setup display (1), LCD displays as (1).

* Press softkey2[BACK] to return to SPEED DIAL setup.
* Press softkey3[NEXT] to CHARGE RATE setup.
* Press softkey1[EXIT] to return to main display.

(2) After pressing softkey4[ENTER]

```
BABY CALL        OFF
 EXIT  ON/OFF
```

2 **Press softkey4[ENTER].** LCD displays as (2).
3 **Press softkey2[[ON/OFF]** to switch ON/OFF where ON to enable baby call function and OFF to disable.

4 **Press softkey1[EXIT]** to save the setting and return to display (1).

3. CHARGE RATE SETUP(AOC)

Depend on the network option, the network may send charge information to user side during conversation.

There are three options provided by network:

a) No charge information sending
b) Total Charge with Currency sending
c) Charge Units sending

In option (a), no charge information displays on the LCD display.
In option (b), total charge with currency will display on the LCD display without entering the charge rate.
In option (c), user have to ask the charge rate from network provider and enter it into this setup. The total charge with "$xxxxxxx.xxxx" is the product of charge rate by charge units sent from network. If the charge rate doesn't set up or total charge is overflow, charge units with "@xxxxxxx" is displayed only.

(1) After pressing softkey3[NEXT] from BABY CALL SETUP display (1)

```
3. CHARGE RATE
 EXIT  BACK  NEXT  ENTER
```

1 **Press softkey3[NEXT]** from BABY CALL setup display (1). LCD displays as (1).

* Press softkey2[BACK] to return to BABY CALL setup.
* Press softkey3[NEXT] to EMERGENCY CALL setup.
* Press softkey1[EXIT] to return to main display.

(2) After pressing softkey4[ENTER]

```
CHARGE RATE: aa.bbb
 EXIT  CHANGE
```

2 **Press softkey4[ENTER]**. LCD displays as (2).

* Press softkey2[CHANGE] to change the charge rate setup as display(3).
* Press softkey1[EXIT] to return to display (1).

(3) After pressing softkey2[CHANGE]

```
CHARGE RATE:  **.***
 EXIT  ←  SAVE
```

3 **Press softkey2[CHANGE].** LCD displays as (3).

* Press number digit (0-9). (5 digits is required)
  for example: if the charge rate is 2.31, 02.310 is required to input.
* Press softkey2[←] to erase the last digit.
* Press softkey3[SAVE] to save the charge rate.

* Press softkey1[EXIT] to return to display (1).

4. EMERGENCY CALL SETUP

This function allows you to directly dial the number stored in the emergency call function by just pressing any dialing pads.

(1) After pressing softkey3[NEXT] from CHARGE RATE setup display (1)

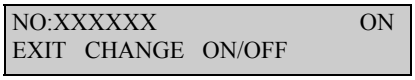
```
4. EMERGENCY CALL
 EXIT  BACK  NEXT  ENTER
```

1 **Press softkey3[NEXT]** from CHARGE RATE SETUP display (1). LCD displays as (1).

* Press softkey2[BACK] to CHARGE RATE setup.

* Press softkey3[NEXT] to RING TYPE setup.
* Press softkey1[EXIT] to return to main display.

(2) After pressing softkey4[ENTER]



2 **Press softkey4[ENTER].** LCD displays as (2).
* Press softkey2[CHANGE] to enter the phone number.
* Press softkey3[ON/OFF] to enable/disable the emergency call function. 'ON/OFF' will be shown only if there is a phone number stored.
* Press softkey1[EXIT] to a return to display (1).

(3) After pressing softkey2[CHANGE]

3 **Press softkey2[CHANGE]**. LCD displays as (3). You can enter the phone number now by pressing dialing pads.
* Press softkey2[←] to move cursor backward and re-enter the number.
* Press softkey1[EXIT] to return to display (2) without saving the phone number.

4 **Press softkey3[SAVE]** to save the phone number and return to display (2).

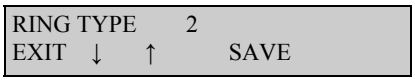
5. RING TYPE SETUP

You can choose one of the four ring patterns available. The default setting is 2.

(1) After pressing softkey3[NEXT] from EMERGENCY CALL setup display (1)

1 **Press softkey3[NEXT]** from EMERGENCY CALL setup display (1). LCD displays as (1).
* Press softkey2[BACK] to EMERGENCY CALL setup.
* Press softkey3[NEXT] to TIME AND DATE setup.
* Press softkey1[EXIT] to return to main display.

(2) After pressing softkey4[ENTER]



2 **Press softkey4[ENTER].** LCD displays as (2).
* Press softkey2[↓] to choose the lower lever ring pattern. The corresponding new pattern will sound.
* Press softkey3[↑] to choose the higher level ring pattern. The corresponding new pattern will sound.
* Press softkey1[EXIT] to return to display (1) without saving the change.

3 **Press softkey4[SAVE]** to save the setting and return to display (1).

6. TIME AND DATE SETUP

The default setting of time and date setup is AUTO which allows you to get the time and date automatically from network after making the first connected outgoing call if the network provides time and date. Otherwise, you can set up time and date by yourself after entering time and date setup.

(1) After pressing softkey3[NEXT] from RING TYPE setup display (1)

1 **Press softkey3[NEXT]** from RING TYPE setup display (1). LCD displays as (1).
* Press softkey2[BACK] to RING TYPE setup.
* Press softkey3[NEXT] to NEW CALL INDICATOR setup.
* Press softkey1[EXIT] to return to main display.

(2) After pressing softkey4[ENTER]

2 **Press softkey4[ENTER].** LCD displays as (2).

98' 01/01 00:01 is Year Month/Day Hour: minute format.

* Press softkey2[CHANGE] to setup time and date
* Press softkey1[EXIT] to return to display (1) without saving the change.

(3) After pressing softkey2[CHANGE]

YYMMDDHHmm
EXIT ← SAVE

3 **Press softkey2[CHANGE].** LCD displays as (3).
* Press number key (0-9) directly to setup time/date

YY: year MM: Month DD: Day HH: Hour
mm: Minute
9910252035 is 25th Oct. 1999 20:35

* Press softkey2[←] to erase the last digit.
* Press softkey3[SAVE] to save the time/date entered.
* Press softkey1[EXIT] to return to display (1).

7. NEW CALL INDICATOR SETUP

With this function set to on, softkey3 shows 'NEWx' in main display, where x stands for a number, as well as speaker LED flashes(normal mode) or ON (deactivation mode) to inform you that there is/are x incoming call(s) was/were not picked up by you (Note1). Refer to INQUIRING CALL HISTORY to confirm new incoming call.

(1) After pressing softkey3[NEXT] from TIME AND DATE setup display (1)

7. NEW CALL INDICATOR
EXIT BACK NEXT ENTER

1 **Press softkey3[NEXT]** from TIME AND DATE setup display (1). LCD displays as (1).
* Press softkey2[BACK] to TIME AND DATE setup.
* Press softkey3[NEXT] to SPEED DIAL setup.
* Press softkey1[EXIT] to return to main display.

(2) After pressing softkey4[ENTER]

NEW CALL INDICATOR ON
EXIT ON/OFF

2 **Press softkey4[ENTER].** LCD displays as (2).
3 **Press softkey2[ON/OFF]** to enable/disable new call indicator.

Note 1: It is recommended to set only one phone to enable NEW CALL INDICATOR in the POINT-TO-MULTIPOINT configuration.

8. CALL WAITING SETUP

Second call will ring and wait for answer in case CALL WAITING set to ON.
Second call will not ring and the caller will hear busy tone in case CALL WAITING set OFF.

Default: ON

(1) After pressing softkey3[NEXT] from NEW CALL INDICATOR setup display(1)

8. CALL WAITING
EXIT BACK NEXT ENTER

1 Press softkey3[NEXT] from NEW CALL INDICATOR setup display(1). LCD display as (1).

* Press softkey2[BACK] to NEW CALL INDICATOR setup display
* Press softkey3[NEXT] to SPEED DIAL setup
* Press softkey1[EXIT] to return to main display.

(2) After pressing softkey4(ENTER)

CALL WAITING ON
EXIT ON/OFF

2 Press softkey4[ENTER]. LCD display as (2).

3 Press softkey2[ON/OFF] to turn CALL WAITING on or off.

PROTECTED FUNCTION SETUP

Protected function contains more private data than the general function. Therefore, once you have the password set, the four-digit password is required before entering protected function setup menu.

After pressing softkey1[PROG] from main display
Main menu 2

```
      GENERAL PROTECTED
EXIT  FUNCTION  FUNCTION
```

1 **Press softkey1[PROG].** LCD will display as left, main menu 2.
2 **Press softkey4** to start setting up the first protected function, PHONE NUMBER.

1. PHONE NUMBER (MSN) SETUP

When you have an ISDN line with multiple subscriber numbers (or MSN for short), you may want to assign the phone number to your phone so that it rings only if one of the programmed phone numbers is being called. You can assign up to three phone numbers. Each phone number can have up to twenty digits.

(1) After pressing softkey4 from
main menu 2

```
1. PHONE NUMBER
 EXIT  BACK  NEXT  ENTER
```

1 **Press softkey4** from main menu 2. LCD displays as (1).
* Press softkey2[BACK] to CALL FILTER menu.
* Press softkey3[NEXT] to SUBADDRESS setup.
* Press softkey1[EXIT] to return to main display.

(2) After pressing softkey4[ENTER]

```
1.
 EXIT    NEXT  CHANGE
```

2 **Press softkey4[ENTER].** LCD displays as (2) (Note1).
* Press softkey2[NEXT] to set up next phone number.
* Press softkey1[EXIT] to return to display (1).

(3) After pressing softkey3[CHANGE]

```
1. _
 EXIT    ←    SAVE
```

3 **Press softkey3[CHANGE].** LCD displays as (3).
4 **Enter the phone number.**
5 **Press softkey3[SAVE]** to save the setting and return to display (2).
* Press softkey2[←] to move cursor backward and re-enter the number.
* Press softkey1[EXIT] to return to display (1) without saving the change.

Note 1: If there is a phone number assigned, this phone number can be seen in display (2).

2. SUBADDRESS SETUP

Up to eight separate telephones can be connected to a single ISDN telephone line. You can give each of these telephones a separate telephone number (subaddresses) to distinguish them. For each phone number (or call MSN), you can set up to three subaddresses to associate with it. If the calling party dialed the phone number with subaddress, the phone rings only if one of the assigned phone number with subaddress was dialed. If the calling party only dialled the phone number without subaddress, the phone with the same assigned phone number rings regardless the subaddress. The subaddress assigned to the first entry will be sent to network in incoming or outgoing call. Each subaddress can have up to nineteen digits.

(1) After pressing softkey3[NEXT] from
PHONE NUMBER setup display (1)

```
2. SUBADDRESS
 EXIT    BACK  NEXT  ENTER
```

1 **Press softkey3[NEXT]** from PHONE NUMBER setup display (1). LCD displays as (1).
* Press softkey2[BACK] to PHONE NUMBER setup.
* Press softkey3[NEXT] to PASSWORD setup.
* Press softkey1[EXIT] to return to main display.

(2) After pressing softkey4[ENTER]

```
1.
 EXIT    NEXT    CHANGE
```

2 **Press softkey4[ENTER].** LCD displays as (2) (Note1).
*Press softkey2[NEXT] to set up next subaddress.

* Press softkey1[EXIT] to return to display(1).

(3) After pressing softkey3[CHANGE]

3 **Press softkey3[CHANGE].** LCD displays as (3).
4 **Enter the subaddress number**.

5 **Press softkey3[SAVE]** to save the setting and return to display (2).
*Press softkey2[←] to move cursor backward and re-enter the number.
* Press softkey1[EXIT] to return to display (1) without saving the change.

Note1: If there is a subaddress assigned, this subaddress number can be seen in display (2).

3. PASSWORD SETUP

The password is provided to protect you from unauthorized change of the protected function data in the phone. It requires four digits for the password. You must remember your password very well. However, if you forget it, please contact the local supplier to get it serviced.

(1) After pressing softkey3[NEXT] from SUBADDRESS setup display (1).

1 **Press softkey3[NEXT]** from SUBADDRESS setup display (1). LCD displays as (1).

* Press softkey2[BACK] to SUBADDRESS setup.
* Press softkey3[NEXT] to BLOCK setup.
* Press softkey1[EXIT] to return to main display

(2) After pressing softkey4[ENTER]

2 **Press softkey4[ENTER].** LCD displays as (2).
3 **Press softkey4[CHANGE] then enter 4-digit password.**
4 **Press softkey3[SAVE]** to save the setting and return to display (1).
* Press softkey2[←] to move cursor backward and re-enter the number.
* Press softkey1[EXIT] to return to display (1).

4. OUTGOING CALL BLOCK SETUP

The outgoing call block function includes three sub functions: toll restriction, allow and partial block.

Toll restriction:

You can program up to 10 numbers, each number can have up to 3 digits, in the toll restriction list. If the toll restriction is enable and the allow is disabled then whenever a phone number is dialled that starts with or is identical to one of the 10 programmed numbers, no connection is made. With this feature, certain phone numbers and toll numbers can not be dialed.

Allow:

You can program up to 10 numbers, each number can have up 20 digits, in the allow list. When the allow function is enabled and toll restriction is disabled, the outgoing call can be made only if the number you dialled that starts with or is identical to one the 10 programmed numbers in the allow list. It will reject to make the call that is not listed in the allow phone number list.

Partial block:

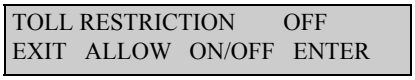
When enable both toll restriction and allow functions, you activate the partial block function. With partial block function, the outgoing call can be made only if:
1) The phone number you dialled starts with or is identical to one of the programmed numbers in both toll restriction phone list and allow phone list; or
2) The phone number you dialed does not start with or is not identical to one of the 10 programmed numbers in the toll restriction phone list.

With partial block feature, you can set the certain toll number can not be dialed but, in the mean time, allow the certain phone number starts with the number in both toll restriction and allow lists can be dialed.

(1) After pressing softkey3[NEXT] from PASSWORD setup display (1)

1 **Press softkey3[NEXT]** from PASSWORD setup display (1). LCD displays as (1).
* Press softkey2[BACK] to PASSWORD setup.
* Press softkey3[NEXT] to CALL FILTER setup.
* Press softkey1[EXIT] to return to main display.

(2) After pressing softkey4[ENTER]



2 **Press softkey4[ENTER].** LCD displays as (2).
* Press softkey2[ALLOW] to set up allow phone number list.

* Press softkey3[ON/OFF] to switch ON or OFF of toll restriction function. To enable the function, set to ON otherwise set to OFF. Softkey3[ON/OFF] will be disabled if there is no phone number stored in the toll restriction list.
* Press softkey1[EXIT] to return to display (1).

(3) After pressing softkey4[ENTER]

3 **Press softkey4[ENTER].** LCD displays as (3).
* Press softkey2[NEXT] to set up next number.
* Press softkey1[EXIT] to return to display (1).

(4) After pressing softkey3[CHANGE]

4 **Press softkey3[CHANGE].** LCD displays as (4).
5 **Enter the number** up to 3 digits.
6 **Press softkey3[SAVE]** to save the setting and return to display (3).
* Press softkey2[←] to move cursor backward and re-enter the number.
* Press softkey1[EXIT] to return to display (3) without saving the change.

5. CALL FILTER SETUP

Once you have certain phone number stored in the CALL FILTER, the phone will not activate or ring of this incoming call. Up to five phone numbers can be stored in the CALL FILTER.

(1) After pressing softkey3[NEXT] from BLOCK setup display (1)

1 **Press softkey3[NEXT]** from BLOCK setup display (1). LCD displays as (1).
* Press softkey2[BACK] to BLOCK setup.
* Press softkey3[NEXT] to PHONE NUMBER menu.
* Press softkey1[EXIT] to return to main display.

(2) After pressing softkey4[ENTER]

2 **Press softkey4[ENTER].** LCD displays as (2).
* Press softkey2[ON/OFF] to enable/disable the function.
* Press softkey1[EXIT] to return to display (1).

(3) After pressing softkey3[ENTER]

3 **Press softkey3[ENTER]**. LCD displays as (3).
* Press softkey2[NEXT] to set next number.

* Press softkey1[EXIT] to return to display (2).

(4) After pressing softkey4[CHANGE]

4 **Press softkey3[CHANGE].** LCD displays as (4).
5 **Enter the number.**
6 **Press softkey3[SAVE]** to save the setting and return to display (3).
* Press softkey2[←] to move cursor backward and re-enter the number.
* Press softkey1[EXIT] to return to display (3) without saving the change.

MAKING OUTGOING CALL

OVERLAP SENDING

With overlap sending, each digit is sent to the network as soon as the dialing pad is pressed. There is no chance to make corrections (Note 1).

METHOD A: OFF-HOOK (BY LIFTING THE HANDSET)

(A1) After lifting handset

A1 **Lift handset** in standby mode. LCD displays as (aA1).
A2 Wait until you get the dialing tone then start to **enter the telephone number** via the dialing pad.
A3 **Start the conversation** via the handset when the line is connected
A4 **Hang up** the handset to end a call.

METHOD B: ON-HOOK (BY PRESSING HARDKEY[SPK])

(B1) After pressing hardkey[SPK]

B1 **Press hardkey[SPK]** in standby mode (Note 2).
LCD displays as (B2).

B2 Wait until you get the dialing tone then start to **enter the telephone number** via the dialing pad

B3 **Start the conversation** via the microphone when the line is connected.
B4 **Press hardkey[SPK]** to end a call.

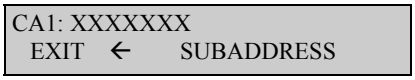
Note 1: Subaddressing is not available in overlap sending.
Note 2: Hardkey[SPK] will be deactivated in the restriction mode (power failure).

EN-BLOC SENDING

With en-bloc sending, the entire number was dialled before sending to the network (Note 1).

METHOD A: OFF-HOOK (BY LIFTING THE HANDSET)

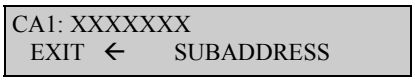
(A1) While dialing



A1 **Enter the telephone number** via the dialing pad in standby mode. LCD will display (A1).
* Press softkey2[←] to correct the number.
* Press softkey3[SUBADDRESS] to enter subaddress.
A2 **Lift handset** after finishing dialing the phone number.
A3 **Start the conversation** via the handset when the line is connected.
A4 **Hang up the handset** to end a call.

METHOD B: ON-HOOK (BY PRESSING HARDKEY[SPK])

(B1) While dialing



B1 **Enter the telephone number** via the dialing pad in standby mode. LCD will display as (B1).
* Press softkey2[←] to correct the number
* Press softkey3[SUBADDRESS] to enter subaddress.
B2 **Press hardkey[SPK]** after finishing dialing the phone number.
B3 **Start the conversation** via the microphone when the line is connected.
B4 **Press hardkey[SPK]** to end a call.

Note 1: When you want to make a phone call with subaddress, use en-bloc sending instead of overlap sending since overlap sending will discard the subaddress.

LAST NUMBER REDIAL

If the line was busy when you called someone, or you want to call someone you just called, there is no need to dial the number again manually. The REDIAL button automatically redials the most recently dialed number for you (Note 1).

OVERLAP SENDING:

METHOD A: OFF-HOOK (BY LIFTING THE HANDSET)

(A1) After lifting handset

A1 **Lift handset.** LCD will display as (A1).
A2 **Press hardkey[REDIAL]** when you hear the dialing tone.
A3 **Start the conversation** via the handset when the line is connected.
A4 **Hang up the handset** to end a call.

METHOD B: ON-HOOK (BY PRESSING HARDKEY[SPK])

(B1) After pressing hardkey[SPK]

B1 **Press hardkey[SPK]** (Note2) LCD will display as (B1).
B2 **Press hardkey[REDIAL]** when you hear the dialing tone.
B3 **Start the conversation** via the microphone when the line is connected.
B4 **Press hardkey[SPK]** to end a call.

EN-BLOC SENDING:

Press hardkey[REDIAL] directly in standby mode.

Note 1: If you need to redial the number which has the subaddress associating with it, use en-bloc sending.

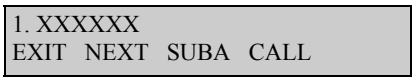
Note 2: Hardkey[SPK] will be deactivated in the restriction mode (power failure).

SPEED DIALING

There are two ways to use speed dialing.

METHOD A: USE SOFTKEY (Note 1)

(A1) After pressing softkey4[SPEED]

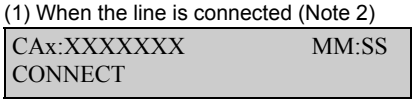


A1 **Press softkey4[SPEED]** from main display. LCD displays as (A1) if there is phone number stored in memory.
* Press softkey3[SUBA] to inquire the subaddress of this phone number.
A2 **Press softkey4[CALL]** to make the line connection of the displayed phone number.
A3 **Start the conversation** via microphone or handset when the line is connected.

Note 1: The phone number used for speed dialing in this feature was stored in memory. Refer to 'SPEED DIAL SETUP' and choose storing in MEMORY in SPEED TYPE SELECT display to set up speed dial in memory.

METHOD B: USE DIRECT ACCESS KEY (Note 1)

(1) When the line is connected (Note 2)



B1 **Press Direct Access key x** (where **x** stands for a number, it can be number 1 to 8). The [SPK] LED will be ON after connection.
B2 **Start the conversation** via the microphone or lift the handset to talk when the line is connected. The LCD will display as (1).
B3 **Press hardkey[SPK]** if you use microphone otherwise hang up handset to end a call (Note 3).

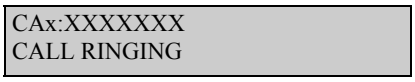
Note 1: The phone number used for speed dialing in this option was stored in direct access key. Refer to 'SPEED DIAL SETUP' and choose storing in KEY in SPEED TYPE SELECT display to set up speed dial in direct access key.

Note 2: When the line is connected, the last five columns of the first row on the LCD display will show the elapsed time in MM:SS format where MM stands for minutes and SS for seconds.

Note 3: Hardkey[SPK] will be deactivated in the restriction mode (power failure).

RECEIVING INCOMING CALL

When ringer starts ringing



When you hear ring, LCD displays as left where “XXXXXXX” represents the calling party number.

METHOD A: OFF-HOOK (BY LIFTING THE HANDSET)

(A1) After lifting handset

A1 **Lift handset** then start the conversation via the handset. LCD will display as (A1).
A2 **Hang up the handset** to end a call.

METHOD B: ON-HOOK (BY PRESSING HARDKEY[SPK])

(B1) After pressing hardkey[SPK] (Note1)

B1 **Press hardkey[SPK]** to start the conversation via the microphone (Note 2). LCD will display as (B1).
B2 **Press hardkey[SPK]** to end a call.

Note 1: When the line is connected, the last five columns of the first row on the LCD display shows the elapsed time in MM:SS format where MM stands for minutes and SS for seconds.
Note 2: Hardkey[SPK] will be deactivated in the restriction mode (power failure)

RECEIVING SECOND CALL

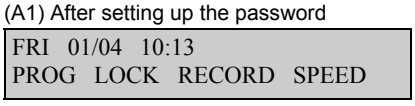
When second call is ringing, there are three methods to handle the second call.

Method 1: Press hardkey [HOLD] to hold the current call and press CA key (associated LED is flashing), or press CA key directly to answer the waiting call.
Method 2: Press softkey2[REJ] to reject the second call.
Method 3: Press hardkey[DND] to mute buzzer and then answer the second call later.

LOCKING THE PHONE

When lock function is enabled, no outgoing call can be made. But, the phone rings for the incoming call. This feature prevents the phone from unauthorized use. Prior to entering lock function setup, you have to have password set (Refer to PASSWORD SETUP to set password).

(A1) After setting up the password

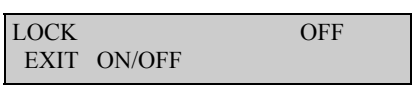


After setting up the password, LCD displays as (1) in main display.

(2) After pressing softkey2[LOCK]

1 **Press softkey2[LOCK]** in main display. LCD displays as (2).
2 **Enter four-digit password.**

(3) After entering password



3 **Press softkey2[ON/OFF]** to switch ON/OFF of lock function.
4 **Press softkey1[EXIT]** to accept the setting and return to display (1).

INQUIRING CALL HISTORY

You can inquire the most recently ten incoming and outgoing call numbers along with time stamps by pressing softkey3[RECORD] in main display. If NEW CALL INDICATOR in enabled, the softkey3 shows 'NEWx', where x stands for a number, in main display instead of 'RECORD' as well as speaker LED flashes (normal mode) of ON (deactivation mode) when there is/are x new incoming call(s) was/were not picked up and has/have not been inquired by you yet. When you are inquiring the incoming call history with new call indicator set to on, the asterisk '*' included at the end of the phone number indicates that this is a new incoming call. Refer to 'NEW CALL INDICATOR' to activate this function. When inquiring call history, the most recently call will be displayed first.

(1) After pressing softkey3[RECORD]

```
CALL HISTORY
 EXIT  INCOMING   OUTGOING
```

1 **Press softkey3[RECORD]/[NEWx]** in main display. LCD displays as (1).

A. COMFIRM THE MOST RECENTLY TEN INCOMING CALLS (Note 1):

When displaying incoming call record, the following (A2) and (A2-1) displays will switch every second. In display(A2-1), it shows Date in MM/DD format, where MM stands for month and DD stands for day, and TIME in HH:MM format, where HH stands for hours and MM stands for minutes. They are date and time when the call was made.

(A2) After pressing softkey2[INCOMING]

```
9:XXXXXXX
 EXIT  BACK  CALL  EDIT
```

A2 **Pressing softkey2[INCOMING].** LCD interchanges as (A2) or (A2-1).

(A2-1) After pressing softkey2[INCOMING]

```
9:XXXXXXX
 MM/DD  BACK  CALL  HH:MM
```

*Press softkey2[BACK] to inquire preceding call.
* Press softkey3[CALL] to dial this phone number for you.
* Press softkey4[EDIT], which switches to time stamp in HH:MM format every second, to edit the phone number.

(A3) After pressing softkey4[EDIT]

```
9:XXXXXXX
 EXIT  DELETE  ADD  CALL
```

A3 **Press softkey4[EDIT].** LCD displays as (A3).
* Press softkey2[DELETE] to delete the underscored digit
* Press softkey3[ADD] or just directly enter the number to input number from the underscored digit.
* Press softkey4[CALL] to automatically dial the phone number.

Note 1: The number assigned in the CALL FILTER will not be shown in the incoming call record.

B. CONFIRM THE MOST RECENTLY TEN OUTGOING CALLS:

When displaying outgoing call record, the following (B2) and (B2-1) displays switch at every second. In display(B2-1), it shows DATE in MM/DD format, where MM stands for month and DD stands for day, and TIME in HH:MM stands for hours and MM stands for minutes. They are the DATE and TIME when the call was made.

(B2) After pressing softkey4[OUTGOING] (Note 1)

```
9:XXXXXXX
 EXIT  BACK  CALL  HH:MM
```

B2 **Press softkey4[OUTGOING].** LCD interchanges as (B2) or (B2-1).

* Press softkey2[BACK] to inquire preceding call.
* Press softkey3[CALL] to dial this phone number for you.

(B2-1) After pressing softkey4[OUTGOING] (Note 1)

B3 **Press softkey1[EXIT]** to return to main display.

SUPPLEMENTARY SERVICES

Most parts of supplementary services of ETSI recommendation are installed in the phone. However, they are available on a subscription basis from your local telecommunication company. **Depending on your subscription, some or all of the supplementary services described below may be available. For further information, contact your ISDN supplier.**

1. CLIP (CALLING LINE IDENTFICATION PRESENTATION)

The calling party's phone number of incoming call will be shown on LCD if the calling party allows the phone number to be presented.

2. CLIR (CALLING LINE IDENTIFICATION RESTRICTION)

With CLIR set to ON, your phone number will not be shown on the LCD of the called party. The default setting of CLIR is OFF which allows your phone to be displayed on the called party's LCD.

(1) After pressing hardkey[SERVICE]

1 **Press hardkey[SERVICE]** in standby mode. LCD display as (1).
* Press softkey1[EXIT] to return to the main display.
2 **Press softkey2[CLIR]** to set up CLIR. LCD displays as (2).

(2) After pressing softkey2[CLIR]

3 **Press softkey3[ON]** to enable CLIR.
* Press softkey4[OFF] to disable CLIR.
4 **Press softkey1[EXIT]** to return to display (1).

3. COLP(CONNECTED LINE PRESENTATION)

The called party's phone number of outgoing call will be shown on LCD if the called party allows the phone number to be presented.

4. COLR(CONNECTED LINE RESTRICTION)

The COLR set to ON, your phone number will not be displayed on the calling party's LCD of incoming call. The default setting of COLR is OFF which allows your phone number to be display on the calling party's LCD of incoming call.

(1) After pressing hardkey[SERVICE]

1 **Press hardkey[SERVICE]** in standby mode. LCD display as (1).
* Press softkey1[EXIT] to return to the main display.

2 **Press softkey3[COLR]** to set up COLR. LCD displays as (2).
3 **Press softkey3[ON]** to enable COLR.

(2) After pressing softkey3[COLR]

4 **Press softkey4[EXIT]** to return to display (1).

5. HOLD

When you have an ongoing call assigned to CA**x** (Where **x** represents a number which can be number 1 to 4) key, the CA**x** indicator will be on. You can hold the CA**x** for later retrieval by pressing hardkey[HOLD]. The maximum number of lines can be held is two (Note 1).

(1) After pressing hardkey[HOLD]

CAx:XXXXXX MM:SS HOLD SUCCESS

1 **Press hardkey[HOLD].** CA**x** indicator flashes if CA**x** is held successfully. LCD will display as (1) (Note2).

Note 1: When you are talking to the third party while putting the other two lines on-hold, the phone rings as well as CAx key flashes for the next incoming call. In order to take this new incoming call, you have to disconnect one call since maximum number of lines can be held is two.

Note 2: If network does not allow CAx call to be held, LCD displays as below. The CA**x** is still in connection.

(1-1) After pressing hardkey[HOLD]

CAx:XXXXXX MM:SS HOLD REJECTS

6. SUSPEND

The suspending allows you to move your telephone from one wall jack to another within the same interface while a call is in progress.

(1) After pressing hardkey[RESUME/SUSPEND]

CALL_ID:_ EXIT ← ENTER

1 **Press hardkey[RESUME/SUSPEND]** to enter resume/suspend function. LCD will display as (1).

2 **Enter 1-digit, 2-digit number, or don't't enter any numbers** (Default=0).

* Press softkey2[←] to move cursor backward and re-enter the number.
* Press softkey1[EXIT] to leave this menu then return to its talking state.

(2) After pressing softkey[ENTER]

CAx:XXXXXX SUSPEND SUCCESS

3 **Press softkey3[ENTER]** to accept the entered CALL_ID. LCD will display as (2) if suspending is successful (Note 1).

Note 1: If the suspending has been rejected by the network, LCD displays as below. The call will be back to its talking state.

(2-1) After pressing softkey[ENTER]

CAx:XXXXXXX SUSPEND REJECT

7. RESUME

Once you have suspend the call, you can resume it by using hardkey[RESUME/SUSPEND].

(1) After pressing hardkey{[RESUME/SUSPEND]

CALL_ID:_ EXIT ← ENTER

1 **Press hardkey[RESUME/SUSPEND]** to enter resume/suspend function. LCD will display as (1).

2 **ENTER CALL_ID** which you entered in suspend state.

* Press softkey2[←] to move cursor backward and re-enter the number.
* Press softkey1[EXIT] to leave this menu then return to main display.

(2) After pressing softkey3[ENTER] (Note 1)

CAx:XXXXXXX RESUME SUCCESS

3 **Press softkey3[ENTER]** to accept the entered CALL_ID. LCD will display as (2) if resuming is successful. The call will back to its talking state.

Note 1:

■ If the incorrect CALL_ID has been entered, LCD will display as below then return to the main display.

(2-1) After pressing softkey3[ENTER]

RESUME REJECT CALL_ID DOES NOT EXIST

■ If there is no call suspended by the network, LCD will display as below then return to the main display.

(2-2) After pressing softkey3[ENTER]

RESUME REJECT NO CALL SUSPENDED

■ If the network does not allow this call to be resumed, LCD will display as below then return to the main display.

(2-3) After pressing softkey3[ENTER]

CALL_ID:XX RESUME REJECT

***8. MCI** (MALICIOUS CALL IDENTIFICATION)*

The MCI supplementary service enables you to request the call information of an incoming call which is identified and registered in network side. MCI is only active in talking state or disconnection state (terminated by remote user) within 30 seconds.

(1) After pressing hardkey[MCI]

ARE YOU SURE YES NO

1 **Press hardkey[MCI].** LCD will display as (1).
2 **Press softkey1[YES]** to activate MCI function. You will see the message from network on LCD display.
* Press softkey2[NO] to return to normal talking state or standby state without activating the MCI function.

***9. CFB** (CALL FORWARDING BUSY)*

The CFB service allows you to divert your incoming call to another number while the line is busy. At least one phone number (MSN) must be entered first.

(1) After pressing hardkey[SERVICE]

SUPPLEMENTARY SERVICE EXIT CLIR COLR CD

1 **Press hardkey[SERVICE].** LCD displays as (1).

(2) After pressing softkey4[CD]

CALL FORWARD EXIT MSN1 MSN2 MSN3

2 **Press softkey4[CD].** LCD will display as (2) (Note 1) (Note 2).
* Press softkey2[MSN1] to activate CALL FORWARDING for MSN1.
* Press softkey3[MSN2] to activate CALL FORWARDING for MSN2.
* Press softkey4[MSN3] to activate CALL FORWARDING for MSN3.

(3) After pressing softkeyx[MSNx]

CALL FORWARD EXIT CFB CFU CFNR

3 **Press softkeyx[MSNx], x** represent 1,2 or 3. LCD will display as (3).

(4) After pressing softkey2[CFB]

CALL FORWARD ON BUSY EXIT OFF ON INQUIRY

4 **Press softkey2[CFB].** LCD displays as (4).
* Press softkey2[OFF] to disable CFB.
* Press softkey4[INQUIRY] to inquire the CFB information.
* Press softkey1[EXIT] to return to display (1).

(5) After pressing softkey3[ON]

5 **Press softkey3[ON].** LCD displays as (5).
6 **Enter the number it will forward to.**
7 **Press softkey3[ENTER]** to enable the call forwarding request (Note 2)

10. CFNR (CALL FORWARDING NO REPLY)

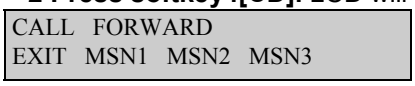
The CFNR service allows you to divert your incoming call to another number if no one replies the call for 30 seconds (This timer is network option)). At least one phone number (MSN) must be entered first.

(1) After pressing hardkey[SERVICE]

1 **Press hardkey[SERVICE].** LCD will display as (1).

(2) After pressing softkey4[CD]

2 **Press softkey4[CD].** LCD will display as (2) (Note 1) (Note 2).

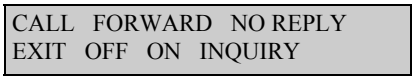


* Press softkey2[MSN1] to activate CALL FORWARDING for MSN1.
* Press softkey3[MSN2] to activate CALL FORWARDING for MSN2.
* Press softkey4[MSN3] to activate CALL FORWARDING for MSN3.

(3) After pressing softkeyx[MSNx]

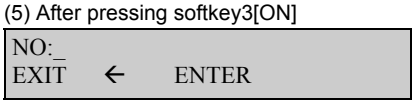
3 **Press softkey[MSNx], x** represents 1, 2 or 3. LCD will display as (3).

(4) After pressing softkey4[CFNR]



4 **Press softkey4[CFNR].** LCD displays as (4).
* Press softkey2[OFF] to disable CFNR.
* Press softkey4[INQUIRY] to inquiry the CFNR information.
* Press softkey1[EXIT] to return to display (1).

(5) After pressing softkey3[ON]



5 **Press softkey3[ON].** LCD displays as (5).
6 **Enter the number it will forward to.**
7 **Press softkey3[ENTER]** to enable the call forwarding request (Note 2).

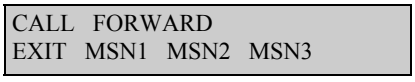
11. CFU (CALL FORWARDING UNCONDITIONAL)

The CFU service allows you to divert the incoming call to the number you programmed unconditionally. At least one phone number (MSN) must be entered first.

(1) After pressing hardkey[SERVICE]

1 **Press hardkey[SERVICE].** LCD displays as (1).

(2) After pressing softkey4[CD]



2 **Press softkey4[CD].** LCD will display as (2) (Note 1) (Note 2).
* Press softkey2[MSN1] to activate CALL FORWARDING for MSN1.
* Press softkey3[MSN2] to activate CALL FORWARDING for MSN2.
* Press softkey4[MSN3] to activate CALL FORWARDING for MSN3.

(3) After pressing softkeyx[MSNx]

CALL FORWARD
EXIT CFB CFU CFNR

3 **Press softkeyx[MSNx], x** represents 1, 2 or 3. LCD will display as (3).

(4) After pressing softkey3[CFU]

CALL FORWARD UNCONDITION
EXIT OFF ON INQUIRY

4 **Press softkey3[CFU].** LCD displays as (4).
* Press softkey2[OFF] to disable CFU.
* Press softkey4[INQUIRY] to inquire the CFU information.
* Press softkey1[EXIT] to return to display (1).

(5) After pressing softkey3[ON]

NO:_
EXIT ← ENTER

5 **Press softkey3[ON].** LCD displays as (5).
6 **Enter the number it will forward to.**
7 **Press softkey3[ENTER]** to enable the call forwarding request (Note 2).

Note 1: You must have at least one phone number (MSN) set to activate CALL FORWARDING. Softkey2, softkey3 or softkey4 is disabled if MSN1, MSN2 or MSN3 has not been set yet.

Note 2: In POINT-TO-MULTIPOINT configuration, if one phone, say phone A has been set to enable CALL FORWARDING function, it will enable CALL FORWARDING of the other phones connected to the same line as well since they are using the same ISDN line but only the phone A has 'C' on the main display.

12. KEYPAD FACILITY

The activation and deactivation for some supplementary services is supported by entering keypad signalling directly. Following is an example of activating CALL FORWARDING UNCONDITIONAL (CFU), if the sequence of code for activating CFU is "*21*7213291#". There are two methods to use keypad signalling for activating CFU:

Method 1: OVERLAP SENDING
(a) Lift handset
(b) Press hardkey[SERVICE]
(c) Dial "*21*7213291#"

Method 2: ENBLOC SENDING
(a) Dial "*21*7213291#"
(b) Press hardkey[SERVICE]
(c) Lift handset

FEATURES

POWER FAILURE INFORMING AND FUNCTIONING

When there is a local power failure, the phone becomes in restriction mode instead of normal mode. The LCD will inform you that it is in restriction mode by flashing the display. Handsfree will be disabled in restriction mode. If you are on the line using handsfree while restriction mode happens, you need to switch to handset to continue the conversation.

CONSULTATION HOLD

When you have two connections and want to speak to two parties alternatively. You can put one party on hold then talk to another one. The flashing CA**x** (Where **x** represents a number which can be number 1 to 4) key indicates that CA**x** is on hold. The following is an example of switching between CA1 and CA2 where CA1 is the one on-line and CA2 is the next incoming/outgoing call (Note 1).

(1)After pressing hardkey[HOLD]

CA1:XXXXXXX MM:SS
HOLD SUCCESS

1 **Press hardkey[HOLD].** CA1 indicator flashes if CA1 is held successfully. LCD will display as (1).

(2)After pressing CA2 key

CA1:XXXXXXX MS:SS CONNECT

2 **Press CA2 key.** CA2 indicator will be on instead of flashing. [SPK] LED will also be on indicating that you can use handsfree to speak. If you prefer using handset, lift handset to speak now. LCD will display as (2).
3 **Press CA1 key** to retrieve the held call and put the CA2 on hold.
4 Repeat step 2 to 3 to speak to these two parties alternatively.
5 To end the current on-line call, **press hardkey[SPK]** if you use handsfree to speak otherwise **hang up the handset.**

Note 1:
■ When there is a new incoming call, the corresponding CA indicator flashes as well as ringer rings to inform you.
■ When there are multiple incoming calls, the less numbered CA key has the priority to be received by you.

MULTIPLE CALLS HANDLING

There are four CA (Call Appearance) keys to handle multiple calls. You can talk to one party and put the others on-hold. The CAx key flashes for the corresponding held call. Refer to HOLD and CONSULTATION HOLD to implement hold function.

OFF-HOOK AND HANDSFREE CONVERSATION SWITCHING

You can switch off-hook conversation to handsfree conversation by pressing hardkey[SPK] and handsfree conversation to off-hook conversation by lifting handset.

BUZZER

Normally, the ring you hear comes from speaker. Sometimes, the ring comes from buzzer instead of speaker when:
1) Speaker is currently working (For example, handsfree is used),
2) There is an ongoing call in progress (For example, you are talking to one party and hear phone rings for another incoming call), or
3) Power failure happens.

VOLUME CONTROL FOR RING AND RECEIVED VOICE

In standby mode, press [VOLUME+]/[VOLUME-] to increase/decrease the ringer volume. The corresponding ringer ring will sound during adjusting. In talking mode, press [VOLUME+]/[VOLUME-] to increase/decrease the received voice volume of the handset or speaker.

MUTE

Press hardkey[MUTE]. The MUTE LED will be ON. With MUTE function, you can hear another party but another party can not hear you. Press hardkey[MUTE] again to return to talk.

DND (DO NOT DISTURB)

By pressing hardkey[DND], the phone works normally only does not ring for the incoming call. If you press hardkey[DND] in standby mode, the phone does not ring for all incoming calls. Letter icon “D” will be shown on main display.

If you press hardkey[DND] during the ringer is ringing for the incoming call, the ringer stops ringing for this call but will ring for next incoming call.

Press hardkey[DND] again to disable DND function.

HEARING AID CAPABILITY

Off hook conversation can be used for those people who are wearing hearing aid equipment.

COLD START

To keep pressing hardkey[MUTE] with handset hang up and then re-plugging line cord in case of malfunction, first installation or replacing new software.

WARNING: 1. To do cold start if the problem still exists after re-plugged line cord.
2. All programmed data will be erased after cold start executed.
3. COLD START does not do the termination of CALL FORWARDING. When

CALL FORWARDING is enabled, the letter ‘C’ does not appear on the main display after resetting (cold start) the phone while CALL FORWARDING is still enabled. To let the ‘C’ appear again, you need to reset the CALL FORWARDING function.

PROBLEM AND REMEDY

Problem	Possible cause	Remedy
Handset lifted: no dial tone.	Phone is not connected to the ISDN 8p4c cable or wall socket.	Use the enclosed 8p4c telephone line cord to connect to ISDN wall socket and phone and make sure they are properly plugged. You need to apply the ISDN line from your local telecommunication company to let the phone to work.
LCD does not have display.	Plug does not properly plugged.	Re-plug the telephone line cord between the wall socket and phone.
LCD shows 'NO CHANNEL', when try to make a call or shows 'CALL RELEASE' after dialing the number.	Both B-channels are occupied by other calls or devices.	Wait until B-channel becomes available.
No outgoing call can be made.	Phone is locked. Phone is blocked.	Disable lock function. Check your block setting.
No incoming call.	Wrong MSN set. Baby call is enabled. Call forwarding is enabled.	Check MSN setting. Disable baby call. Disable call forwarding.
Certain supplementary service does not work such as MCI, CFB, COLR, etc..	Your local telecommunication company does not support this service.	Contact your ISDN supplier or local telecommunication company.
The phone number with subaddress was dialed. But is only connects to the phone number regarding the subaddress.	The overlap sending was used.	Use en-bloc sending to make the call.

Note:

- In some extra-ordinary cases, it is recommended to re-plugging the telephone line cord to the phone.
- To do cold start if the problem still exists after re-plugging the line cord.

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